

2011 FLOOD EVENT LONG RANGE PROJECTION, GOOGLE EARTH FORMAT

PURPOSE AND USE

This mapping is provided by the U.S. Army Corps of Engineers Kansas City District to assist communities within the Missouri River floodplain to plan and prepare for flooding that may be experienced from Rulo, Neb., to St. Louis, Mo., for an extended period of time. These maps are based on releases of 150,000 cubic feet per second from Gavins Point Dam (South Dakota) with a likely range of flows on the Missouri River that can be expected from normal precipitation patterns. An expected range of river stages were generated for each gage location along the Missouri River. A hydraulic model was used to generate water surface profiles from Rulo, Neb., to St. Charles, Mo., for the expected range of flows. The resulting water surface profiles are mapped to show an anticipated range of inundated areas based on this likely range of flows. Areas behind levees are shown as being inundated based solely on estimated overtopping elevations. Levees may fail before overtopping in some cases, resulting in more extensive flooding than shown. Areas shown as flooded between the levee and bluff line, and between the tie-back levees, are difficult to predict and will be highly dependent on local rainfall.

DISCLAIMER

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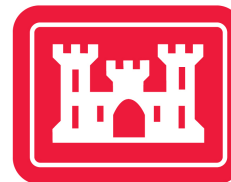
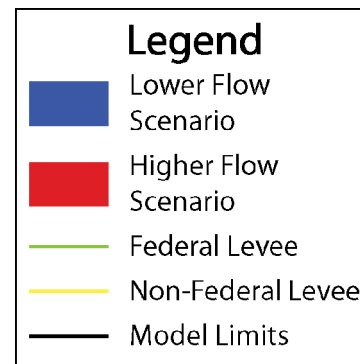
KEY SOURCES

Key sources compiled to produce these maps include:

- National Weather Service (NWS) <http://www.nws.noaa.gov/oh/ahps/>. Current gage readings and gage forecasts are updated daily at this site
- United States Geological Survey (USGS) National Elevation Dataset (NED)
- USACE Modeling, Mapping, and Consequences Production Center (MMC), initial hydraulic model used by Omaha and Kansas City Districts to develop flood mapping
- USACE National Levee Safety Program National Levee Database (NLD), Federal and non-Federal levee locations and elevations

ADDITIONAL SOURCES

INUNDATION ELEMENTS were created from the modeling effort for this event. Inundation boundaries were computed using one dimensional HEC-RAS software from the USACE Hydrologic Engineering Center.



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